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LISTING OF THE CLAIMS

Claims pending

- At time of the Action: Claims 1-2, 4-9, 11-16 and 20.
- After this Response: Claims 1-2, 4-6, 8, 11-16 and 20.

Canceled or Withdrawn claims: 3, 7, 9-10, and 17-19.

Amended claims: 1, 2, 4-6, 8, 11-14, and 20.

New claims: None.

- 1. (Currently amended) In a fiber optic network including at least one host digital terminal (HDT) that includes at least one optical multiplexing unit (OMU) and at least one optical interface unit (OIU), and including at least one optical network unit (ONU) that includes at least one further OIU, A one or more computer readable storage media having computer executable instructions stored thereon for performing a method for automated distribution of software in a fiber optic networkloaded into the OMU, the OIU, and the further OIU, the method comprising:
- (a) identifying a version of first software comprised on a plurality of firmware cards located in installed on the OMU a multiplexor in the fiber optic network;
- (b) determining whether the <u>version of the first</u> software comprised on the firmware eards located in the multiplexor is a <u>first prescribed software version</u>;
- (c) if the <u>version of the first</u> software comprised on at least one of said firmware cards is not the prescribed software version, updating the <u>first</u> software to be the prescribed software version;
- (d) identifying a version of further second -software comprised on at least a further firmware card-located in at least one of a plurality of optical network units that are connected to the multiplexor over a fiber optic connection and that are connected to one another by an optical channel shelf provided by the multiplexor installed on the OIU;
- (e) determining whether the <u>version of the further second</u> software emprised on the further firmware eard located in the optical-network unit is a further second prescribed software version; and

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- (f) if the further-version of the second software comprised in the further firmware card is not the further-second prescribed software version, updating the further-second software to be the second prescribed software version;
 - (g) identifying a version of third software installed on the further OIU;
- (h) determining whether the version of the third software is a third prescribed software version; and
- (i) if the version of the third software is not the third prescribed software version, updating the third software to be the third prescribed software version.
- (g) determining-whether-there is another optical network unit connected to the multiplexor over a fiber optic connection;

if so, then returning to step (d); and

if not, then determining whether there is another multiplexor in the fiber optic network and, if so, repeating the method for the other multiplexor.

- 2. (Currently amended) The <u>computer readable media method</u>-of claim 1, <u>further comprising instructions for contacting the HDT</u> at least to identify the version of the first software and the version of the second softwarewherein identifying the software comprised on the firmware eards located in the multiplexer comprises identifying a version for the software.
 - 3. (Cancelled).

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- 4. (Currently amended) The <u>computer readable media method</u> of claim 1, further comprising instructions for determining whether the HDT includes at <u>least a further OMU</u>—wherein identifying the software comprised on the firmware cards located in the multiplexor comprises identifying software comprised on an optical interface unit card.
- 5. (Currently amended) The <u>computer readable media method</u> of claim 14, wherein identifying the software comprised on the firmware cards located in the multiplexor comprises identifying software comprised on an optical multiplexing unit cardfurther comprising instructions for:

identifying a version of software installed on the further OMU;

determining whether the version of the software installed on the further

OMU is a prescribed software version; and

if the version of the software installed on the further OMU is not the prescribed software version, updating the software installed on the further OMU to be the prescribed software version.

6. (Currently amended) The <u>computer readable media</u> method of claim 1, wherein identifying the software comprised on the firmware card located in the network unit comprises identifying software comprised on an optical interface unit eard further comprising instructions for determining whether the HDT includes at least a further OIU.

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7. (Cancelled).

- 8. (Currently Amended) A method for automated distribution of software in a fiber optic network including at least one host digital terminal (HDT) that includes at least one optical multiplexing unit (OMU) and at least one optical interface unit (OIU), and including at least one optical network unit (ONU) that includes at least one further OIU, the method comprising:
- (a) identifying a version of first software installed on the OMU comprised in a multiplexor in the fiber optic network;
- (b) identifying a version of second software comprised in installed in the further OIU a network unit connected to the multiplexor over a fiber optic connection;
- (c) determining whether there is at least a another further network unitONU connected to the multiplexor-OMU over a fiber optic connection;

if so, then identifying a version of software installed in at least one OIU included in the further ONU-returning to step (b); and if not, then:

determining if the second software on the network-unit is compatible with the first software on the multiplexor; and

if the first software on any network unit is not compatible with the second software on the multiplexor, then updating the first software on the network unit; and

determining whether there is another multiplexor in the fiber optic network includes at least a further OMU and, if so, repeating the method for the other-further multiplexor OMU.

- 9. Cancelled.
- 10. Cancelled.
- 11. (Currently Amended) The method of claim 8, wherein determining if the second software on the network unit is compatible with the first software on the multiplexor comprises determining if a software version of the second software on the network unit is compatible with a software version on the multiplexor of the first software.
- 12. (Currently Amended) The method of claim 8, wherein identifying a version of the first software comprised in the multiplexor comprises determining a version of software installed on a firmware card in the multiplexor OMU.
- 13. (Currently Amended) The method of claim 12, wherein determining the version of software on the firmware card in the multiplexor-OMU comprises determining the version of software on at least one of an optical interface unit card and an optical multiplexing unit card.

- 14. (Currently Amended) The method of claim 8, wherein identifying the software comprised in the network unitOIU comprises determining a version of software on a firmware card located on the network unitOIU.
- 15. (Previously Presented) The method of claim 14, wherein determining the version of software on the firmware card located on the network unit comprises determining the version of software on an optical interface unit card.
- 16. (Original) A computer readable medium having computer executable instructions for performing the method of claim 8.

17 - 19. Cancelled.

20. (Currently Amended) A system for automatically distributing software in a fiber optic network including at least one host digital terminal (HDT) that includes at least one optical multiplexing unit (OMU) and at least one optical interface unit (OIU), and including at least one optical network unit (ONU) that includes at least one further OIU, the system comprising:

a processor for executing computer executable instructions; and memory for storing computer executable instructions, wherein said memory has stored therein computer executable instructions for performing the following steps:

- (a) initiating a single contact with a-the OMUmultiplexor in the fiber optic network;
- (b) identifying software comprised on ones of a plurality of firmware cards located in the multiplexorOMU;
- (c) determining whether the software comprised on the firmware cards located in the multiplexer-OMU is a prescribed software version;
- (d) if the software comprised on one of said plurality of firmware cards located in the multiplexor OMU is not the prescribed software version, updating the software;
- (e) identifying software comprised on a firmware card located in a network unit the ONU, wherein the ONU is connected to the multiplexor OMU over a fiber optic connection;
- (f) determining whether the software comprised on the firmware card located in the network unitONU is a prescribed software version; and
- (g) if the software comprised in the firmware card located in one of the plurality of network units the ONU is not the prescribed software version, updating the software;
- (h) determining whether there is another network unitat least a further ONU connected to the multiplexor over a fiber optic connection;

if so, then returning toperforming step (e) for the further ONU; and

if not, then determining whether there is at least another multiplexor-OMU in the fiber optic network and, if so, repeating steps (a) through (h) for the other multiplexorOMU.